

Southern University at Shreveport LA
LABORATORY SYLLABUS
Biol 104L
Fall 2010
1 Credit Hour

Instructors:

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Office Hours: See posting on office door

Description

Biol 104 lab covers topics supplemental to lecture material. This lab will cover topics that provide an exposure to the principles and the basic concepts of biology. Emphasis is on the cell and the molecular aspects of cellular activities. This is a (1) credit hour course where only laboratory experiences be provided.

Required text

Handout materials will be provided in class one week before the scheduled lab. It is strongly recommended that you read the material in anticipation of the actual lab period.

Laboratory Handouts

- Laboratory Safety Rules
- Lab Equipment
- The Microscope
- Classification Lab
- Scientific Method Lab
- Guidelines for Writing Lab Reports

Additionally, the laboratory manual below is required:

Manual:

- Mader, Sylvia, Biology Laboratory Manual, 10th Edition, McGraw Hill, 2010

Evaluation (grading)

Points for each lab will vary depending on the activities covered. Grades will be based on:

Lab reports
Technical performance
Lab notebook

Laboratory reports

Each student will need to submit a lab report. The lab report is due no more than one week after the lab is completed.

Technical performance/lab notebook

Any scientist must be able to function in a laboratory. One way to increase marketability to a potential employer is to have good lab practices; this includes technical skills and ability to keep a well-organized lab notebook. Over the course of the semester you will be evaluated on your lab skills and your lab notebook. Techniques and a guide on how to keep a lab notebook will be provided at the beginning of class.

The final grade will be based on performance on lab reports, lab manual, technical performance, and exams. After all scores are totaled, your average will be determined by your calculated percentage of the highest possible. An average between:

90 – 100 = A	80 – 89 = B	70 – 79 = C	60 – 69 = D	Below 60 = F
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Attendance

Attendance is mandatory. There are no make-up labs. If you must miss lab because of an official college function, please inform the lab instructor BEFORE the function.

Schedule of Laboratories:

Some lab activities can be completed in one lab period. Others, however, need two or more lab periods to complete properly. This schedule outlines what is planned for each lab periods, if all goes according to plan.

WEEK

TOPIC

1	No Lab Laboratory Safety/Survey of Laboratory Equipment
2	Classification
3	The Scientific Method
4	Microscopy and Metric Measurements
5	Chemical Composition of Cells
6	Laboratory Exam
7	Cell Structure and Function
8	Cell Structure and Function
9	Enzymes
10	Enzymes
11	Mitosis and Meiosis

12	Mitosis and Meiosis
13	DNA and Biotechnology
14	Lab Examination